

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P263595

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-55-RDP-UNV-L93050-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3602.7 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

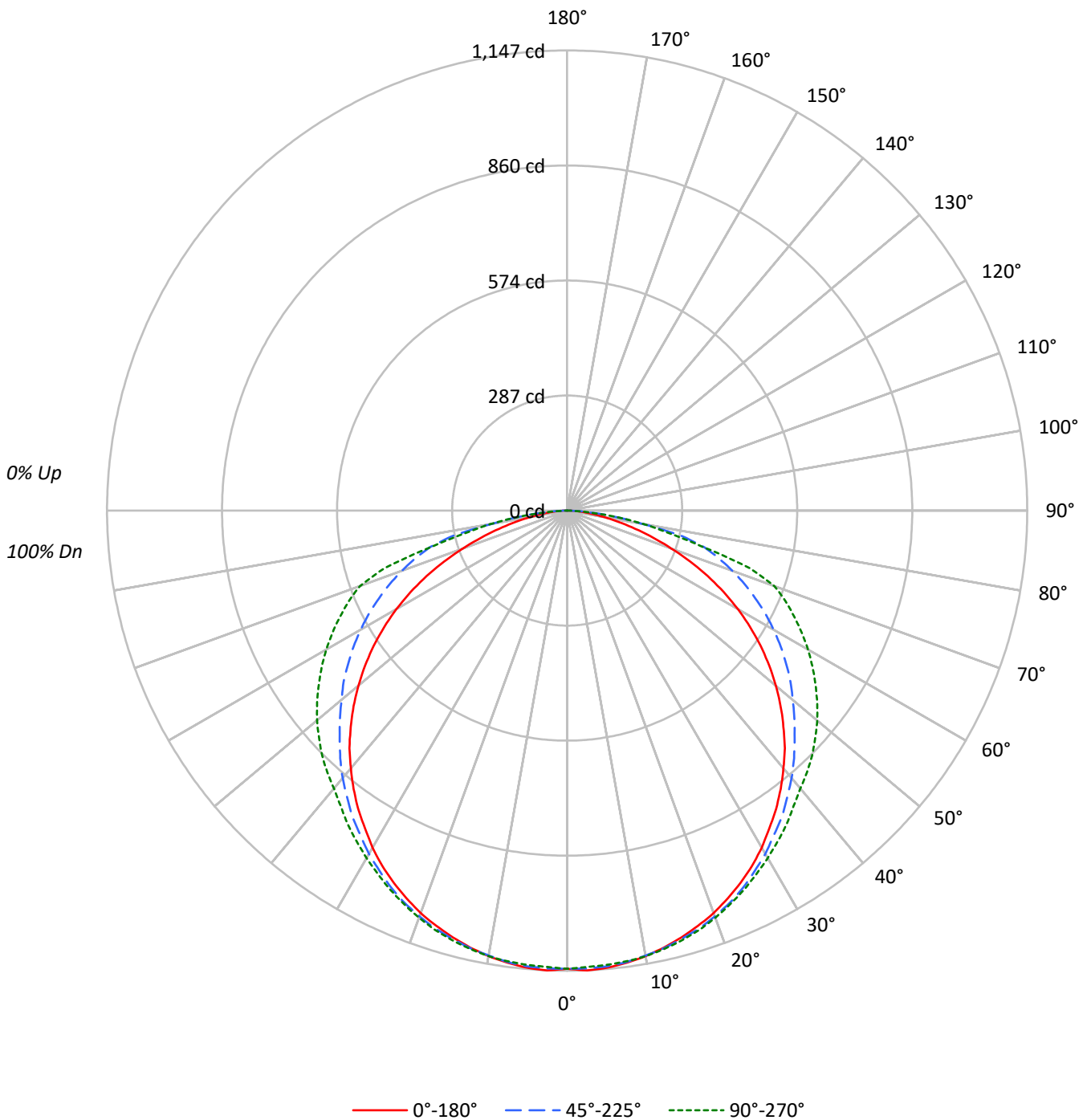
Input Watts (W): 41.766486
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1537	1537	1537
5°	1545	1540	1535
10°	1541	1539	1541
15°	1534	1539	1544
20°	1529	1541	1546
25°	1519	1540	1548
30°	1507	1535	1554
35°	1491	1532	1567
40°	1473	1529	1588
45°	1451	1525	1643
50°	1422	1537	1704
55°	1381	1564	1772
60°	1322	1599	1866
65°	1231	1649	1987
70°	1089	1723	2163
75°	913	1844	1816
80°	728	1457	1512
85°	574	985	903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	3.0
10°-20°	311.7	8.7
20°-30°	476.2	13.2
30°-40°	582.2	16.2
40°-50°	623.1	17.3
50°-60°	597.7	16.6
60°-70°	504.7	14.0
70°-80°	322.5	9.0
80°-90°	76.3	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	896.2	24.9
0°-40°	1478.4	41.0
0°-60°	2699.2	74.9
0°-90°	3602.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3602.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1144	1137	1140	1138	1137	109
15°	1101	1098	1105	1108	1108	311
25°	1023	1022	1037	1041	1043	472
35°	908	915	933	945	954	568
45°	763	775	802	839	864	588
55°	589	608	667	727	756	525
65°	387	424	518	590	624	381
75°	176	250	355	362	349	189
85°	37	62	64	62	58	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1142.1	1142.1	1142.1	1142.1	1142.1
2.5°	1147.4	1140.3	1142.1	1142.1	1138.5
5°	1143.9	1136.8	1140.3	1138.5	1136.8
7.5°	1136.8	1131.4	1135.0	1135.0	1133.2
10°	1127.9	1122.6	1126.1	1127.9	1127.9
12.5°	1115.5	1111.9	1117.2	1117.2	1119.0
15°	1101.3	1097.7	1104.8	1108.4	1108.4
17.5°	1085.3	1083.6	1092.4	1094.2	1096.0
20°	1067.6	1065.8	1076.5	1076.5	1080.0
22.5°	1046.3	1044.5	1058.7	1058.7	1062.3
25°	1023.3	1021.5	1037.4	1041.0	1042.8
27.5°	998.4	996.7	1012.6	1017.9	1021.5
30°	970.1	970.1	987.8	994.9	1000.2
32.5°	938.1	943.5	959.4	970.1	977.1
35°	908.0	915.1	932.8	945.2	954.1
37.5°	874.3	881.4	900.9	916.9	927.5
40°	838.8	847.7	870.7	888.5	904.4
42.5°	803.4	812.2	837.1	863.7	884.9
45°	762.6	775.0	801.6	838.8	863.7
47.5°	721.8	734.2	767.9	814.0	838.8
50°	679.2	693.4	734.2	787.4	814.0
52.5°	634.9	650.8	702.3	759.0	785.6
55°	588.8	608.3	666.8	727.1	755.5
57.5°	540.9	562.2	631.3	695.2	725.3
60°	491.2	517.8	594.1	661.5	693.4
62.5°	439.8	471.7	556.9	626.0	659.7
65°	386.6	423.8	517.8	590.5	624.2
67.5°	331.6	381.3	478.8	555.1	588.8
70°	276.7	335.2	438.0	516.1	549.8
72.5°	225.2	292.6	397.2	470.0	477.0
75°	175.6	250.1	354.7	361.8	349.4
77.5°	131.2	207.5	292.6	260.7	258.9
80°	94.0	166.7	188.0	193.3	195.1
82.5°	62.1	125.9	122.4	125.9	124.1
85°	37.2	62.1	63.8	62.1	58.5
87.5°	17.7	23.1	17.7	16.0	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)